

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P966693

Luminaire Tested: **NVN-SB4C-740-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4C-740-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

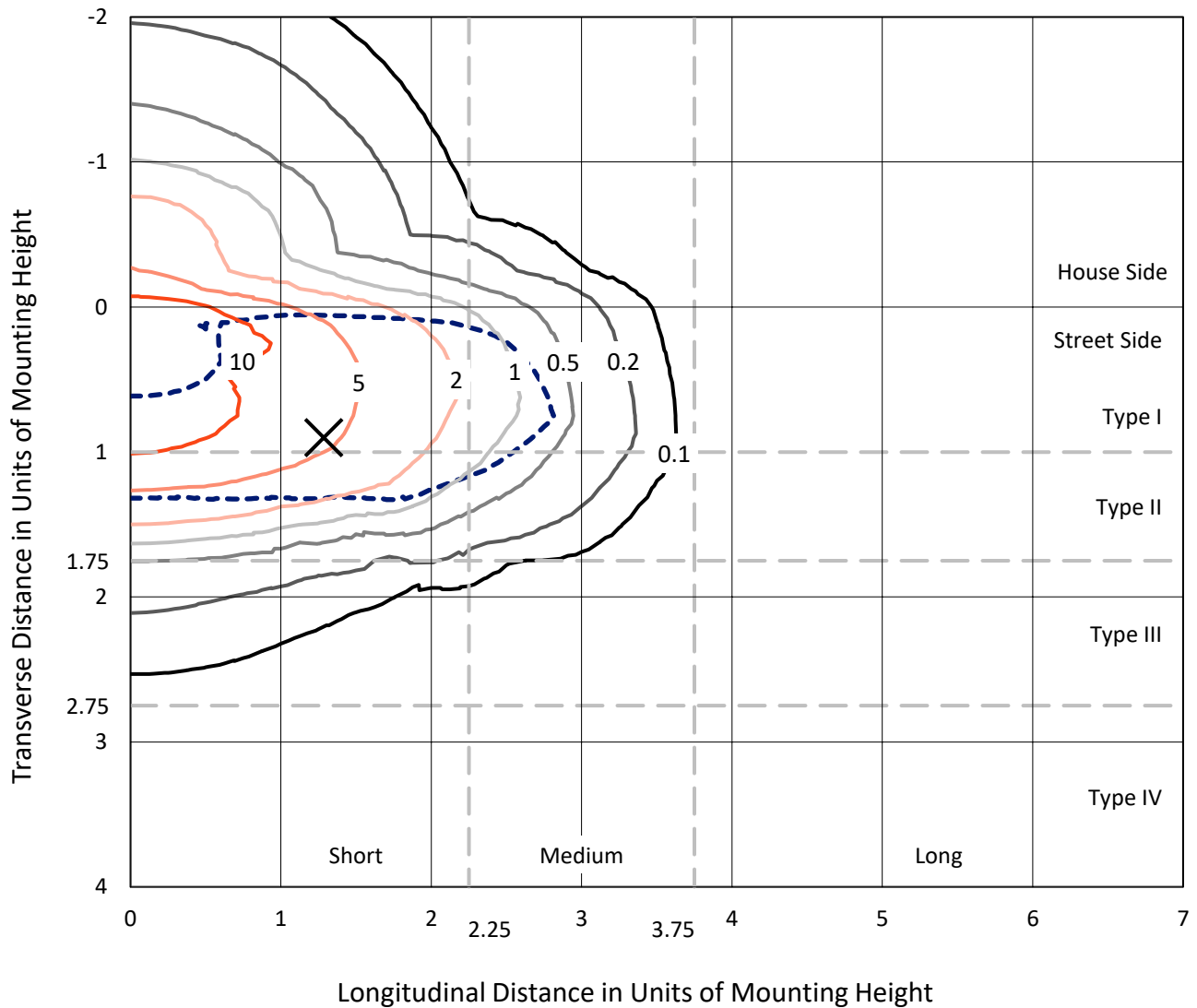
Lumens per Lamp: N/A  
Luminaire Lumens: 33102.4 lumens  
Efficiency: N/A  
Efficacy: 164.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

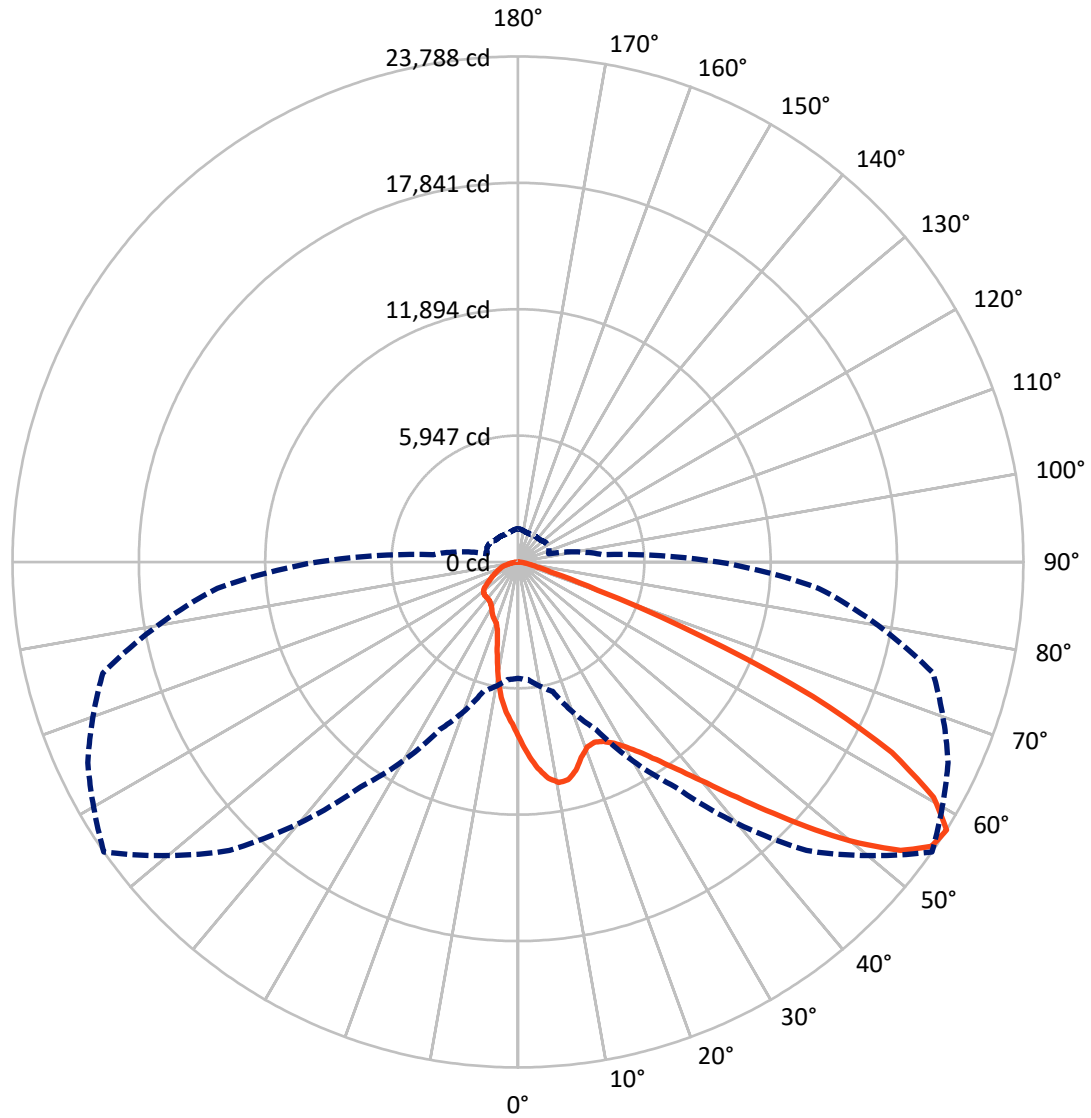
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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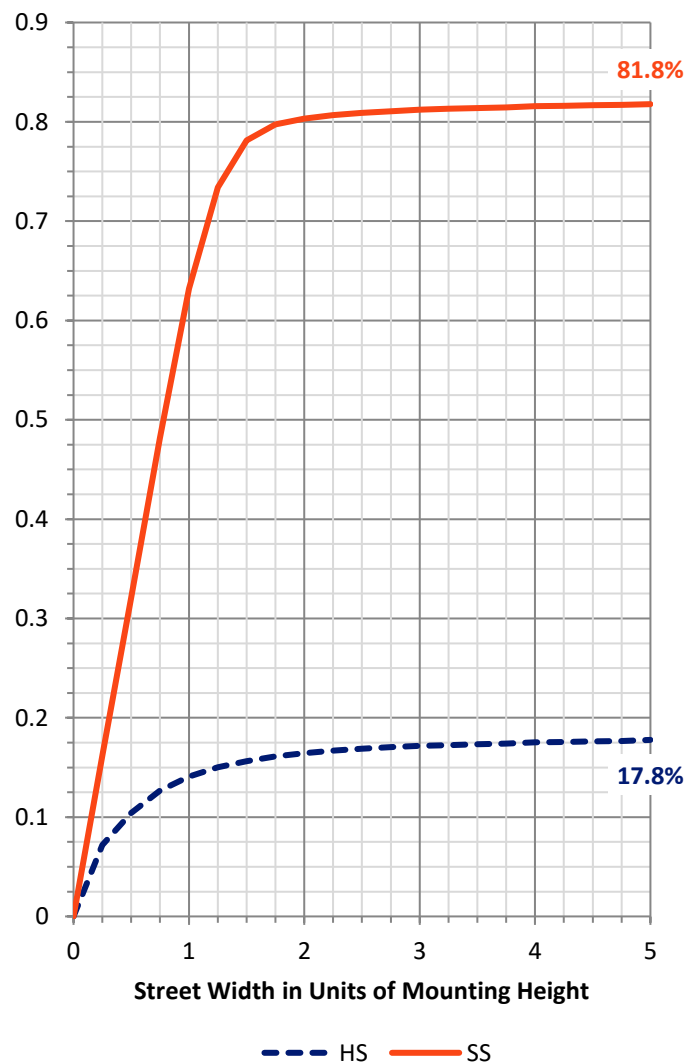
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5989.7   | 0.0    | 5989.7  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 27112.7  | 0.0    | 27112.7 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 33102.4  | 0.0    | 33102.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 769.7   | 2.3       |
| 10°-20°   | 1942.7  | 5.9       |
| 20°-30°   | 3100.0  | 9.4       |
| 30°-40°   | 4908.0  | 14.8      |
| 40°-50°   | 7512.2  | 22.7      |
| 50°-60°   | 8046.3  | 24.3      |
| 60°-70°   | 5062.0  | 15.3      |
| 70°-80°   | 1496.9  | 4.5       |
| 80°-90°   | 264.7   | 0.8       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 33102.4 | 100.0     |
| 0°-180°   | 33102.4 | 100.0     |

**Coefficient of Utilization**



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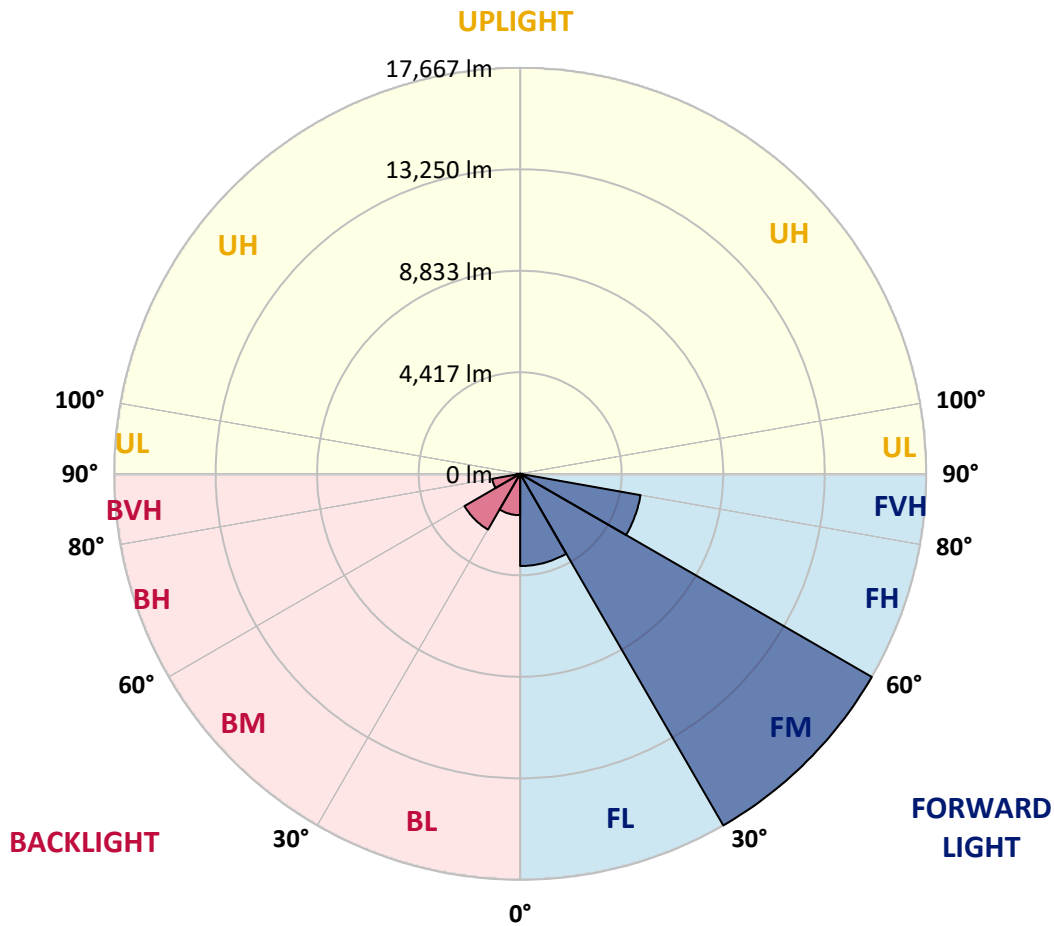
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4012.0  | 12.1      |                         |      |         |
| FM (30°-60°)   | 17667.0 | 53.4      |                         |      |         |
| FH (60°-80°)   | 5321.9  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 111.8   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 1800.3  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2799.5  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1237.0  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 152.9   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 8294.4  | 8294.4  | 8294.4  | 8294.4  | 8294.4  | 8294.4  | 8294.4  | 8294.4  | 8294.4  | 8294.4  | 8294.4 |
| 2.5°  | 9516.2  | 9509.3  | 9547.1  | 9418.6  | 9331.4  | 9213.3  | 9057.6  | 8859.1  | 8645.2  | 8419.3  | 8321.8 |
| 5°    | 10373.5 | 10313.7 | 10353.0 | 10257.2 | 10161.3 | 9983.4  | 9752.4  | 9429.0  | 9033.6  | 8583.6  | 8344.0 |
| 7.5°  | 10238.3 | 10197.3 | 10298.3 | 10383.8 | 10455.7 | 10433.5 | 10264.0 | 9925.2  | 9415.2  | 8761.6  | 8414.1 |
| 10°   | 9148.3  | 9102.1  | 9244.2  | 9540.2  | 9974.8  | 10353.0 | 10558.3 | 10347.9 | 9805.4  | 8956.7  | 8482.6 |
| 12.5° | 8186.6  | 8164.3  | 8258.4  | 8498.0  | 8980.5  | 9706.1  | 10520.7 | 10717.5 | 10210.9 | 9187.7  | 8575.0 |
| 15°   | 7775.9  | 7748.5  | 7808.3  | 7929.9  | 8237.9  | 8913.8  | 10178.5 | 10970.8 | 10609.7 | 9454.6  | 8722.2 |
| 17.5° | 7685.1  | 7654.4  | 7680.0  | 7743.4  | 7941.9  | 8457.0  | 9661.6  | 11095.7 | 11025.5 | 9752.4  | 8845.4 |
| 20°   | 7852.8  | 7827.2  | 7830.6  | 7827.2  | 7965.8  | 8374.8  | 9302.3  | 11047.8 | 11388.3 | 10026.1 | 8965.2 |
| 22.5° | 8258.4  | 8215.7  | 8217.4  | 8126.7  | 8201.9  | 8518.6  | 9208.2  | 10919.4 | 11711.8 | 10265.7 | 9055.9 |
| 25°   | 8918.9  | 8842.0  | 8857.3  | 8626.4  | 8605.8  | 8840.3  | 9355.4  | 10820.2 | 12033.4 | 10457.4 | 9073.0 |
| 27.5° | 9822.5  | 9735.2  | 9689.0  | 9345.1  | 9180.8  | 9297.2  | 9654.8  | 10854.4 | 12338.0 | 10623.4 | 9030.2 |
| 30°   | 10951.9 | 10845.8 | 10751.7 | 10264.0 | 9966.3  | 9923.4  | 10120.2 | 11080.2 | 12697.4 | 10798.0 | 8956.7 |
| 32.5° | 12336.3 | 12213.1 | 12042.0 | 11395.1 | 10975.9 | 10751.7 | 10722.6 | 11482.5 | 13118.4 | 11020.4 | 8918.9 |
| 35°   | 13984.3 | 13823.4 | 13580.4 | 12743.6 | 12213.1 | 11754.5 | 11516.7 | 12062.5 | 13695.0 | 11355.8 | 8961.8 |
| 37.5° | 15681.8 | 15500.5 | 15277.9 | 14282.0 | 13630.0 | 12954.1 | 12485.2 | 12849.7 | 14463.4 | 11811.0 | 9074.7 |
| 40°   | 17247.6 | 17043.9 | 16836.9 | 15950.4 | 15250.6 | 14436.0 | 13671.1 | 13845.6 | 15402.9 | 12355.1 | 9266.4 |
| 42.5° | 18171.6 | 18021.0 | 17942.3 | 17463.2 | 16922.4 | 16095.9 | 15146.2 | 15026.4 | 16458.7 | 12981.4 | 9485.5 |
| 45°   | 18130.6 | 18069.0 | 18311.9 | 18510.5 | 18382.1 | 17923.6 | 16874.6 | 16332.0 | 17518.0 | 13524.0 | 9687.4 |
| 47.5° | 17162.0 | 17203.1 | 17745.5 | 18861.3 | 19352.4 | 19592.0 | 18842.5 | 17613.8 | 18438.6 | 13929.5 | 9778.0 |
| 50°   | 14526.7 | 14560.9 | 15817.0 | 18223.0 | 19602.3 | 20952.4 | 20795.0 | 18864.7 | 19152.2 | 14177.6 | 9757.5 |
| 52.5° | 12440.7 | 12463.0 | 13002.0 | 16330.4 | 18777.5 | 21636.9 | 22554.1 | 20043.8 | 19674.2 | 14246.1 | 9642.8 |
| 55°   | 9370.8  | 9447.7  | 10051.9 | 12812.1 | 16631.5 | 21094.5 | 23625.4 | 21258.7 | 20004.4 | 14252.9 | 9523.1 |
| 57.5° | 5474.2  | 5558.1  | 6304.2  | 8696.5  | 12926.7 | 19203.6 | 23788.0 | 22336.8 | 20228.6 | 14198.2 | 9451.2 |
| 60°   | 2681.5  | 2717.5  | 3042.6  | 4570.7  | 7970.9  | 15560.3 | 22480.6 | 22858.7 | 20353.5 | 14169.1 | 9447.7 |
| 62.5° | 1807.1  | 1802.0  | 1815.6  | 2255.4  | 3927.3  | 9997.0  | 19756.3 | 21944.9 | 20286.8 | 14057.9 | 9413.5 |
| 65°   | 1553.8  | 1534.9  | 1483.7  | 1582.9  | 2034.6  | 4572.4  | 15264.3 | 19217.2 | 19778.5 | 13778.9 | 9179.1 |
| 67.5° | 1343.4  | 1345.0  | 1346.7  | 1315.9  | 1452.8  | 2110.0  | 9328.0  | 15137.6 | 17954.3 | 12457.8 | 8275.5 |
| 70°   | 1112.3  | 1127.7  | 1134.6  | 1134.6  | 1184.2  | 1384.4  | 3982.0  | 10375.3 | 14162.2 | 9767.7  | 6665.3 |
| 72.5° | 1013.0  | 980.5   | 984.0   | 966.9   | 966.9   | 1054.1  | 1603.4  | 5881.6  | 8922.4  | 5494.8  | 4067.6 |
| 75°   | 826.6   | 847.1   | 850.4   | 838.6   | 799.2   | 804.3   | 951.4   | 2467.6  | 3817.8  | 2279.4  | 2010.7 |
| 77.5° | 713.6   | 713.6   | 720.5   | 711.9   | 681.1   | 602.4   | 634.9   | 956.6   | 1298.9  | 934.3   | 1004.5 |
| 80°   | 573.3   | 571.5   | 600.6   | 617.8   | 569.8   | 445.0   | 405.6   | 528.8   | 576.7   | 410.7   | 521.9  |
| 82.5° | 278.9   | 296.0   | 412.5   | 470.6   | 433.0   | 321.7   | 248.2   | 328.5   | 308.0   | 181.4   | 234.4  |
| 85°   | 162.6   | 154.1   | 184.8   | 261.8   | 248.2   | 177.9   | 119.8   | 171.2   | 160.8   | 92.5    | 94.1   |
| 87.5° | 51.4    | 47.9    | 37.6    | 89.0    | 71.9    | 49.6    | 32.5    | 49.6    | 44.5    | 20.5    | 20.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8294.4 | 8294.4 | 8294.4 | 8294.4 | 8294.4 | 8294.4 | 8294.4 | 8294.4 | 8294.4 | 8294.4 |
| 2.5°  | 8200.3 | 7998.4 | 7798.1 | 7615.0 | 7503.8 | 7431.9 | 7360.0 | 7279.7 | 7248.8 | 7202.6 |
| 5°    | 8118.1 | 7728.0 | 7380.6 | 7081.1 | 6809.1 | 6595.2 | 6379.5 | 6204.9 | 6126.2 | 6179.3 |
| 7.5°  | 8070.2 | 7505.5 | 6969.9 | 6420.6 | 5891.8 | 5469.1 | 5101.2 | 4842.8 | 4726.5 | 4755.5 |
| 10°   | 8027.4 | 7253.9 | 6437.7 | 5570.1 | 4810.3 | 4286.7 | 3910.2 | 3713.4 | 3639.8 | 3655.3 |
| 12.5° | 7988.0 | 6971.6 | 5796.0 | 4654.5 | 3846.8 | 3501.2 | 3393.4 | 3395.1 | 3408.7 | 3419.1 |
| 15°   | 7981.3 | 6631.0 | 5079.0 | 3853.7 | 3326.6 | 3304.4 | 3420.7 | 3494.3 | 3533.7 | 3545.7 |
| 17.5° | 7970.9 | 6223.8 | 4348.3 | 3307.8 | 3200.0 | 3350.6 | 3458.5 | 3506.3 | 3537.2 | 3538.8 |
| 20°   | 7929.9 | 5707.0 | 3674.0 | 3047.7 | 3172.7 | 3302.7 | 3369.5 | 3407.1 | 3432.7 | 3441.3 |
| 22.5° | 7803.2 | 5132.0 | 3148.7 | 2931.4 | 3063.1 | 3167.5 | 3246.2 | 3289.0 | 3304.4 | 3314.6 |
| 25°   | 7575.7 | 4488.6 | 2786.0 | 2820.1 | 2910.8 | 3042.6 | 3105.9 | 3114.5 | 3109.3 | 3124.7 |
| 27.5° | 7277.9 | 3799.0 | 2560.0 | 2669.5 | 2786.0 | 2898.8 | 2933.0 | 2927.9 | 2917.7 | 2934.8 |
| 30°   | 6918.5 | 3179.4 | 2416.2 | 2500.1 | 2659.3 | 2762.0 | 2792.7 | 2780.7 | 2760.2 | 2779.1 |
| 32.5° | 6538.7 | 2673.0 | 2298.2 | 2382.0 | 2554.9 | 2655.9 | 2686.6 | 2674.6 | 2659.3 | 2674.6 |
| 35°   | 6184.4 | 2318.8 | 2188.7 | 2303.4 | 2472.7 | 2572.0 | 2611.4 | 2613.0 | 2613.0 | 2631.9 |
| 37.5° | 5859.3 | 2111.7 | 2098.0 | 2253.7 | 2416.2 | 2505.3 | 2561.7 | 2565.2 | 2491.6 | 2496.7 |
| 40°   | 5558.1 | 2024.4 | 2056.9 | 2221.2 | 2361.5 | 2447.1 | 2450.5 | 2258.8 | 2123.7 | 2120.2 |
| 42.5° | 5311.7 | 2007.3 | 2068.9 | 2217.8 | 2322.1 | 2325.6 | 2084.3 | 1935.4 | 1897.8 | 1899.4 |
| 45°   | 5080.7 | 2002.1 | 2096.2 | 2217.8 | 2264.0 | 2009.0 | 1846.4 | 1807.1 | 1810.5 | 1824.2 |
| 47.5° | 4822.3 | 1981.6 | 2101.4 | 2186.9 | 2096.2 | 1786.6 | 1738.6 | 1721.5 | 1714.6 | 1718.1 |
| 50°   | 4539.9 | 1908.0 | 2036.4 | 2125.3 | 1808.8 | 1690.7 | 1630.8 | 1625.6 | 1634.3 | 1639.4 |
| 52.5° | 4242.2 | 1788.2 | 1925.2 | 2014.1 | 1677.0 | 1606.9 | 1540.2 | 1552.1 | 1589.8 | 1601.8 |
| 55°   | 4047.1 | 1647.9 | 1778.0 | 1791.7 | 1584.6 | 1528.2 | 1471.7 | 1499.1 | 1569.2 | 1591.4 |
| 57.5° | 3995.8 | 1499.1 | 1610.3 | 1594.9 | 1466.6 | 1459.7 | 1425.5 | 1449.5 | 1538.4 | 1570.9 |
| 60°   | 3980.4 | 1365.6 | 1446.0 | 1434.0 | 1351.9 | 1384.4 | 1375.9 | 1387.8 | 1418.6 | 1428.8 |
| 62.5° | 3860.6 | 1259.5 | 1298.9 | 1281.8 | 1249.2 | 1305.6 | 1326.2 | 1300.5 | 1324.5 | 1336.5 |
| 65°   | 3555.9 | 1173.9 | 1155.1 | 1143.1 | 1156.8 | 1208.2 | 1249.2 | 1197.9 | 1220.2 | 1254.3 |
| 67.5° | 3052.9 | 1057.6 | 1006.2 | 1019.9 | 1062.7 | 1090.1 | 1143.1 | 1085.0 | 1103.7 | 1161.9 |
| 70°   | 2469.3 | 910.4  | 864.2  | 903.5  | 944.6  | 1001.1 | 1009.6 | 970.3  | 1014.7 | 1079.8 |
| 72.5° | 1747.2 | 761.5  | 729.0  | 809.4  | 823.1  | 896.7  | 877.9  | 859.1  | 920.7  | 942.9  |
| 75°   | 1211.6 | 614.4  | 595.5  | 657.1  | 706.7  | 770.1  | 756.3  | 778.6  | 908.7  | 918.9  |
| 77.5° | 766.6  | 477.4  | 465.5  | 504.8  | 573.3  | 643.4  | 665.6  | 918.9  | 1552.1 | 1613.7 |
| 80°   | 445.0  | 356.0  | 342.2  | 373.1  | 433.0  | 497.9  | 641.8  | 1127.7 | 1023.4 | 1011.4 |
| 82.5° | 248.2  | 244.7  | 227.6  | 236.2  | 289.2  | 359.4  | 906.9  | 794.0  | 645.1  | 665.6  |
| 85°   | 116.3  | 143.7  | 123.2  | 118.1  | 162.6  | 421.0  | 605.8  | 453.5  | 301.1  | 294.4  |
| 87.5° | 30.9   | 27.4   | 27.4   | 30.9   | 68.5   | 362.7  | 241.3  | 193.4  | 114.7  | 111.2  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)